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NPIC/TSSG/DED-1584-69

MEMORANDUM FOR: Director, National Photographic Interpretation Center

SUBJECT : Proposed Contract with the [REDACTED]

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1. This memorandum requests approval for the commitment of funds for a contract. The specific request is stated in Paragraph 7.

2. The [REDACTED] 1032T Trichromatic Microdensitometer (Micro-d), operated by APSD/TSSG, is currently not optically corrected for scanning color imagery. The problem results from the use of microscope objective lenses--in an optical system whose optical path is more than double that normally found in standard microscopes--to scan an image through a glass stage plate .235" thick (the plate acting as an uncorrected lens causing color problems in the image).

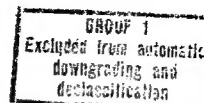
3. As a first step in alleviating this problem, it is proposed that a new stage be designed which would have only the absolute minimum thickness of glass needed to support the film in the area where the actual scanning takes place, thereby reducing to a minimum the optical problems caused by having an uncorrected lens in the system. With this new stage installed, different commercially available lenses will be tried in the system to determine which, if any, would provide enough optical correction to allow for the scanning of conventional color imagery. The contract requested by this memorandum would result in a modified stage. Since this new stage is not significantly more complex than the standard stage, no major technical problems are foreseen.

4. Since the designs for the 1032T Micro-d are proprietary to the [REDACTED] no other contractor was solicited for bids. Coordination with other agencies was deemed unnecessary because of the specialized nature of the task.

5. This task is one of two contracts currently proposed to increase the capabilities of the 1032T Micro-d. The other contract will be with the [REDACTED] to improve the scan control and the sampling system. The two contracts, although not overlapping, are proposed to be run concurrently. The total costs of the two contracts will be [REDACTED]. After the completion of this task, it is proposed that various commercial lenses be tested on the machine in-house. If none of these lenses proves to be

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satisfactory, a contract for the design and development of lens system would be proposed which would cost an estimated [REDACTED] This would be from FY-70 funds.

7. It is requested that the negotiation with the [REDACTED] for a contract to conduct the program described at a cost not to exceed [REDACTED] be approved.

Chief, Technical Services & Support Group,
NPIC

Attachments: (2)

1. Cost Sheet
2. R&D Catalog Form

29 APR 1969

APPROVED: _____

ARTHUR C. LUNDAHL

Director

National Photographic Interpretation Center

Date

Distribution:

Original - NPIC/TSSG/SSD/LB (after approval)

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